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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Appl	lication of:)	
••	Robert D. Symonds, et al.)	
`) Art Unit: 2876	
Serial No.:)	
) Patent Examiner	: Jared Fureman
Filed:	Herewith)	
)	
For:	Financial Transaction Processi	ng	
	System and Method		Ê
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	Application oner of Patents and Trademarks		بح
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	Request to A	mend Drawings	+ 2
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Applicants request to amend the drawings currently pending in the Application by substituting the twenty nine (29) formal drawing sheets enclosed herewith containing Figures 1-30, for the informal drawing sheets currently pending.

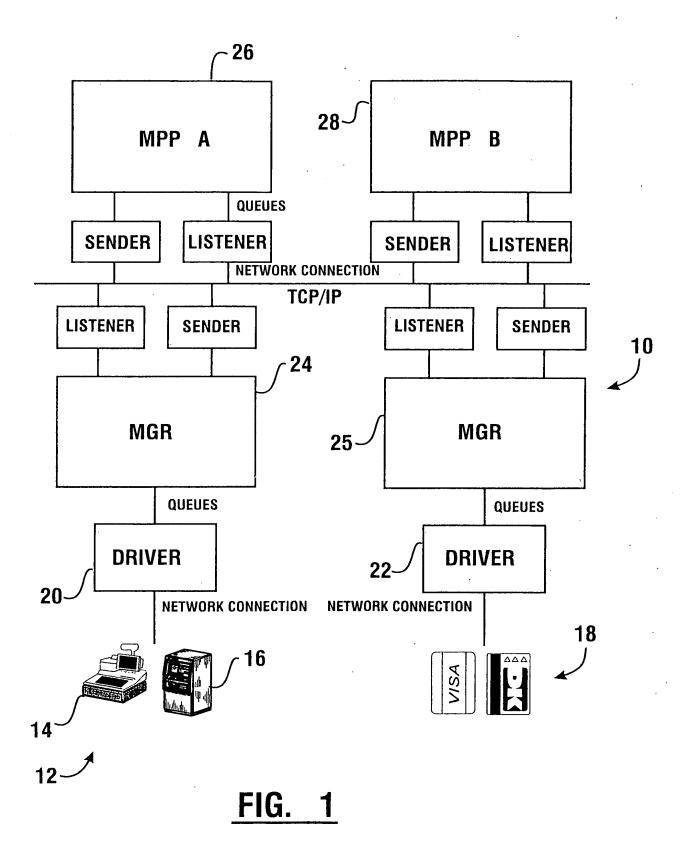
These new formal drawings are identical to the pending drawings in all respects except for shading, line quality and paper size. No new matter will be added as a result of this substitution.

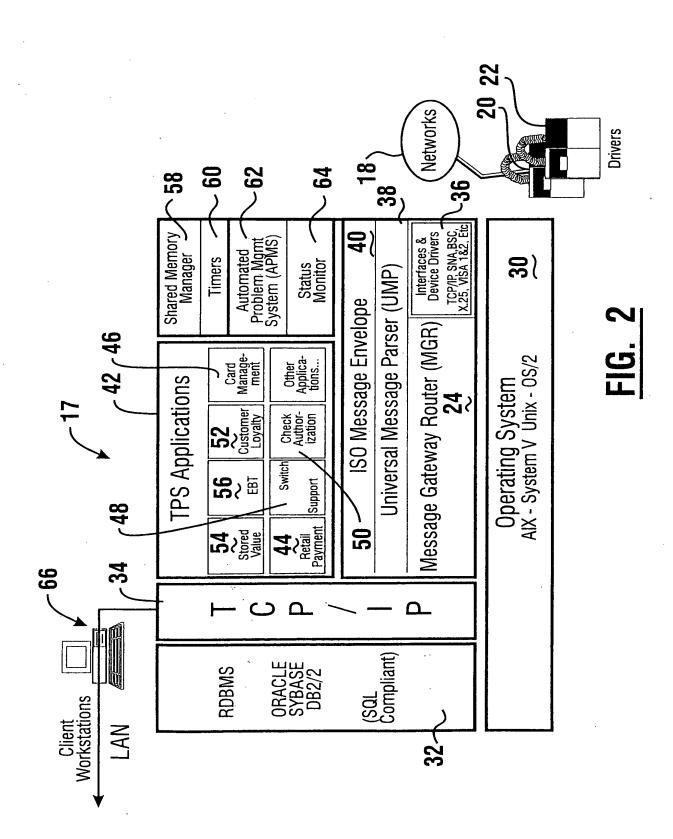
Permission to amend the drawings by substitution is respectfully requested.

Respectfully submitted,

Reg. No. 31,029 Ralph E. Jøcke

231 South Broadway Medina, Ohio 44256 (330) 722-5143

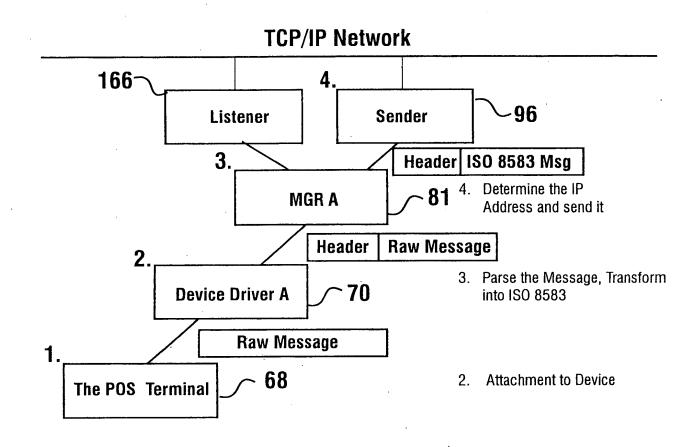




Standard Message Envelope (SME) Format.

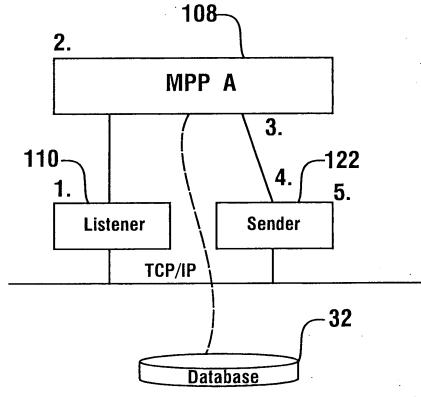
1	Header Sid	Header Layout Version	1
2	Source Node Sid	The message originating node system ld.	
3	Message Receive System Time	The System time in YYYYMMDDHHMISSmmm format.	17
4	Internal Message Sid	Unique system Id of the received message.	4
5	Service Sid	The Message Processing Program (MPP) service system Id, which can process received message.	4
6	Target Node Sid	The message receiving node system Id	6
7	Data Format Indicator (Source)	Message data format type 0 - External Data Source 1 - Internal Data Source	1
8	Message Direction	The direction of message routing.	1
9	Processing Time	Elapsed message processing time in milliseconds.	5
10	Processing Node Sid	The last processing node system Id	6
11	Target Line Node Sid	Line driver node system id. Assigned when terminal is attached to line group.	6
12	Message Text	The Message text in ISO8583 format	Variable

FIG. 3



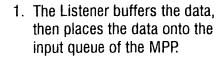
1. Origin of message

FIG. 4



- 1. The Listener buffers the data, then places the data onto the input queue of the MPP.
- 2. The MPP performs various functions based upon the requirements of the message.
 - Builds an internal array.
 - Parses composite fields into subfields of the array.
 - May perform authorization.
 - Determines who to send the message to. May be an MPP or MGR
 - Builds a new message.
- 3. Sends a copy of the data to the database for archive.
- 4. Sends the message to the authorization host.
- 5. The Sender determines the IP address and sends the message.

FIG. 5



- 2. The MPP performs various functions based upon the requirements of the message.
 - Builds an internal array.
 - Builds any subfields required by the

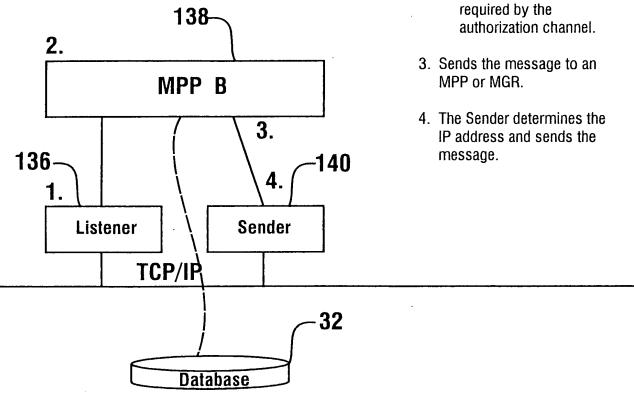
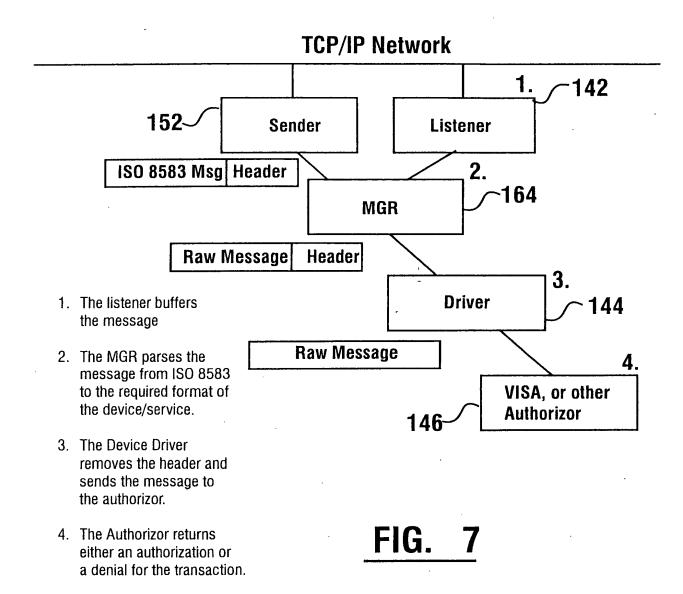
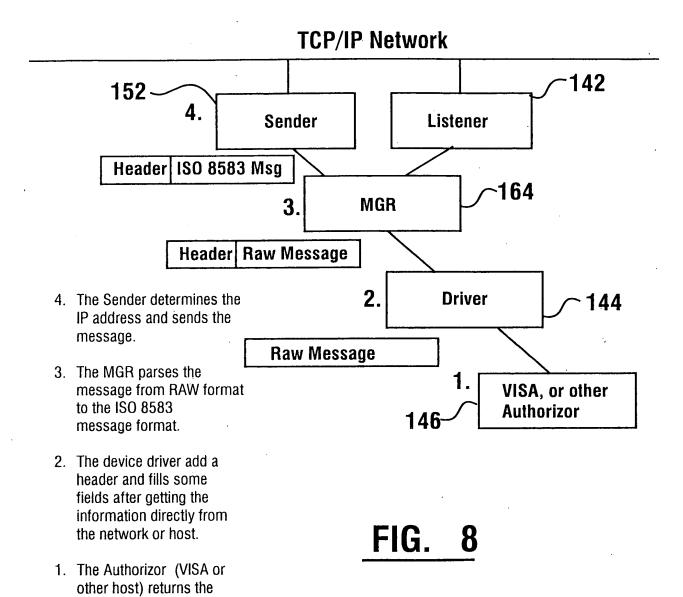
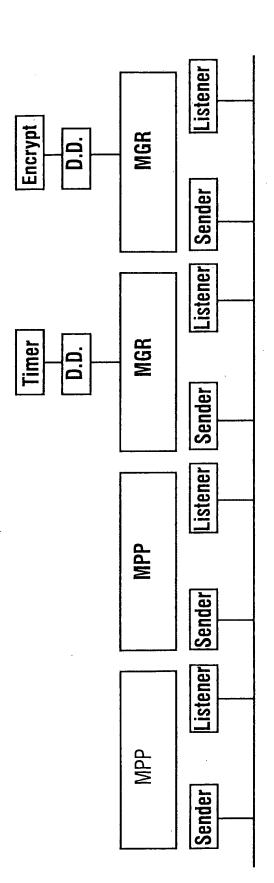


FIG.



message. This represents the actual host/network.





- a key. It may send the message to the first MPP by calling the Encryption Device for The Message is sent to the second MPP. It uses a echo-back field to determine the orgin of the message. The database contains the original message with decryption of the PAN.
- such as track II data. It will then send the message back to the original calling The message is received by the first MPP. It may need to build special fields, device by using the saved data in the database. ر.

EG.

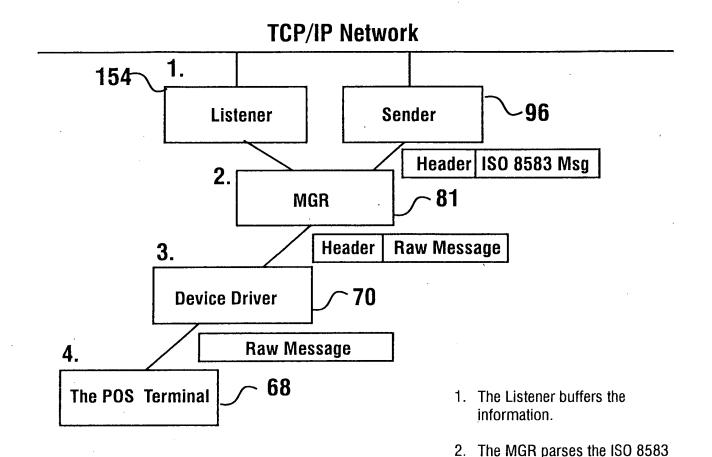


FIG. 10

3. The Device driver sends the message to the device.

message into a message format that can be used by the device.

4. The POS terminal returns a message confirming the authorization message.

The message is then returned to the MPP in the same manner as before.

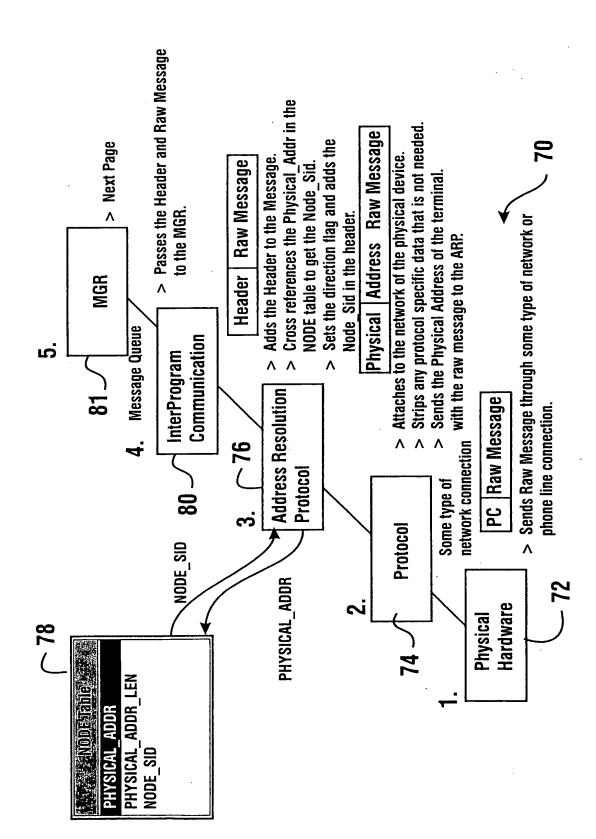
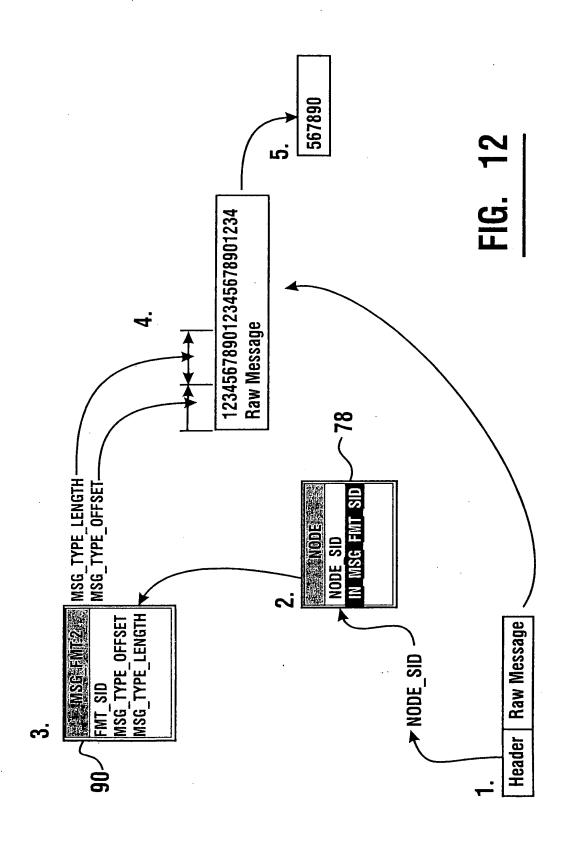
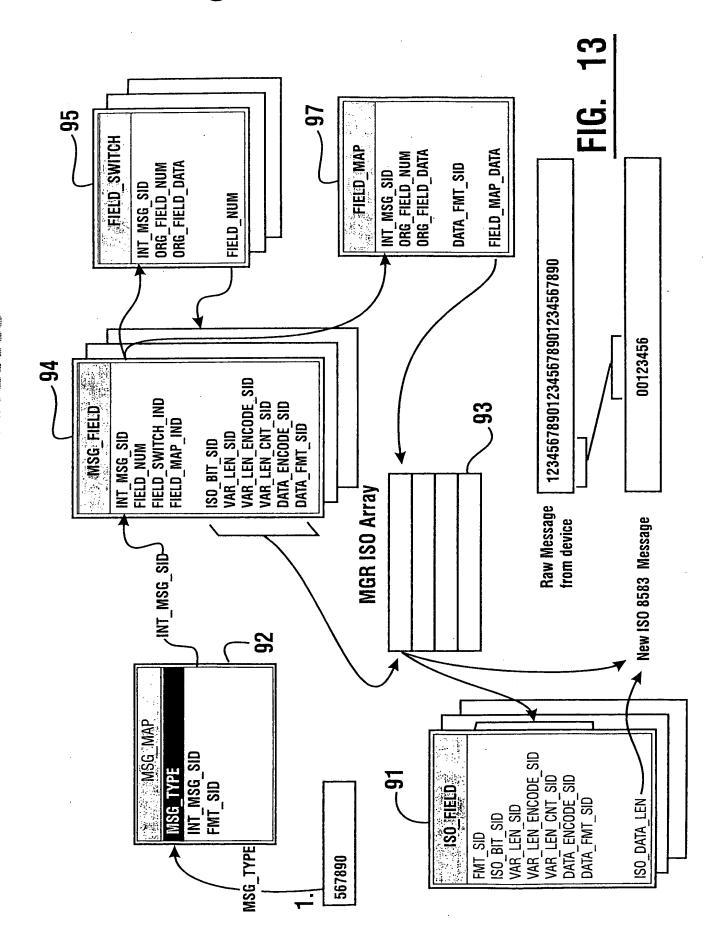
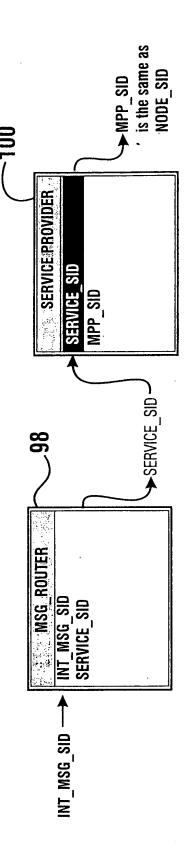


FIG. 11

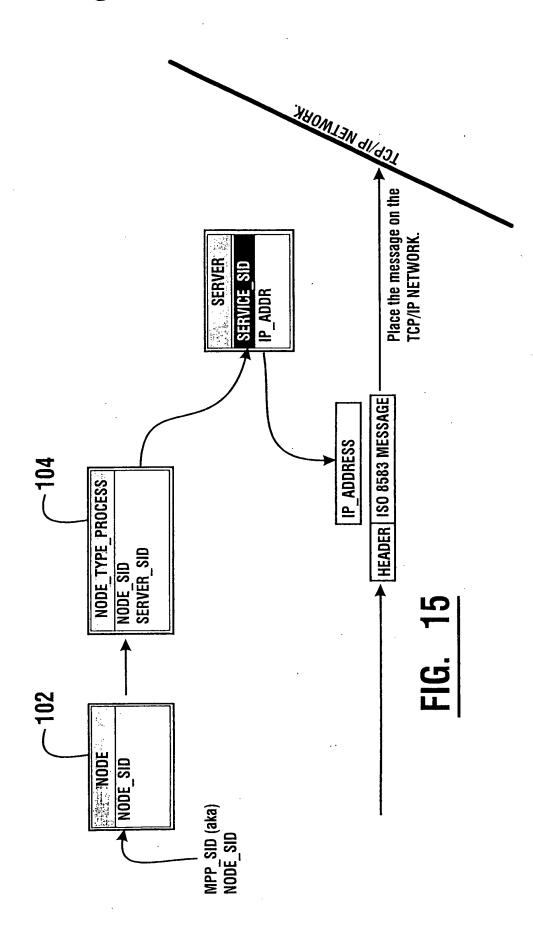


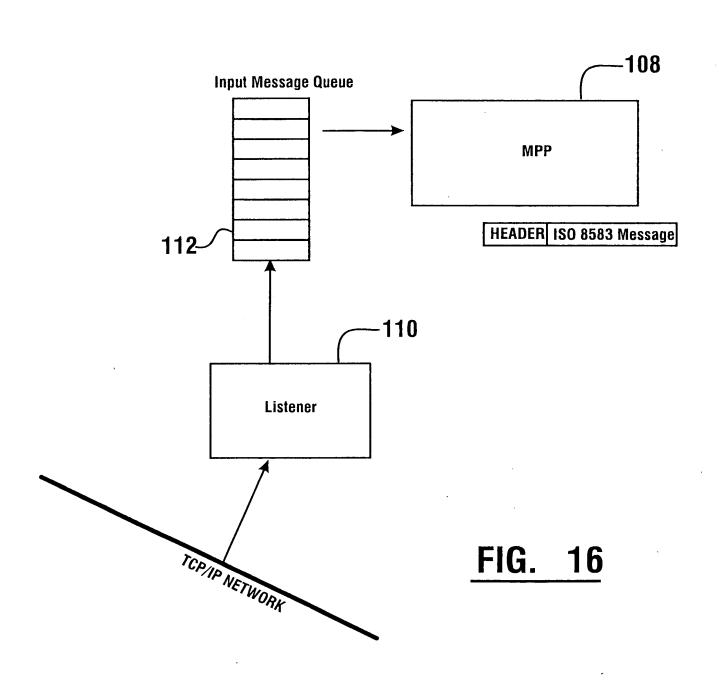


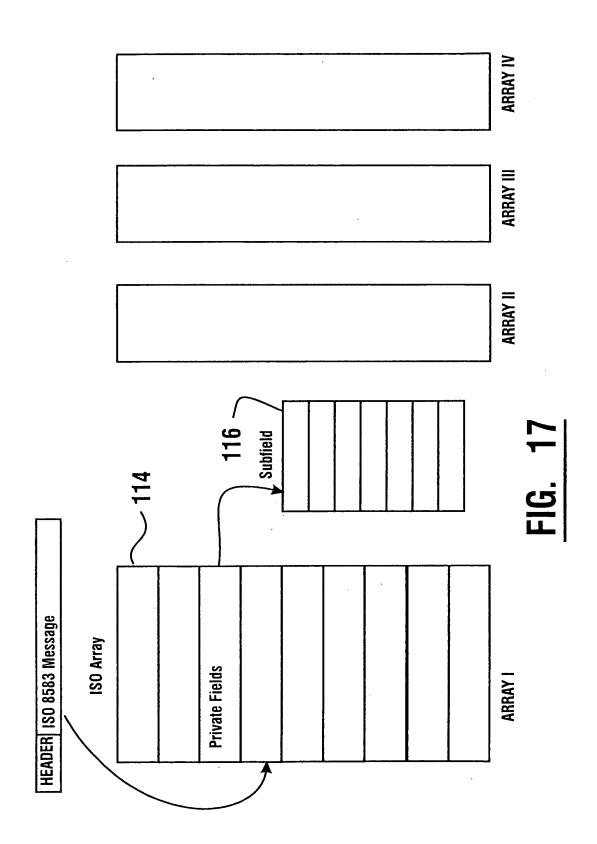


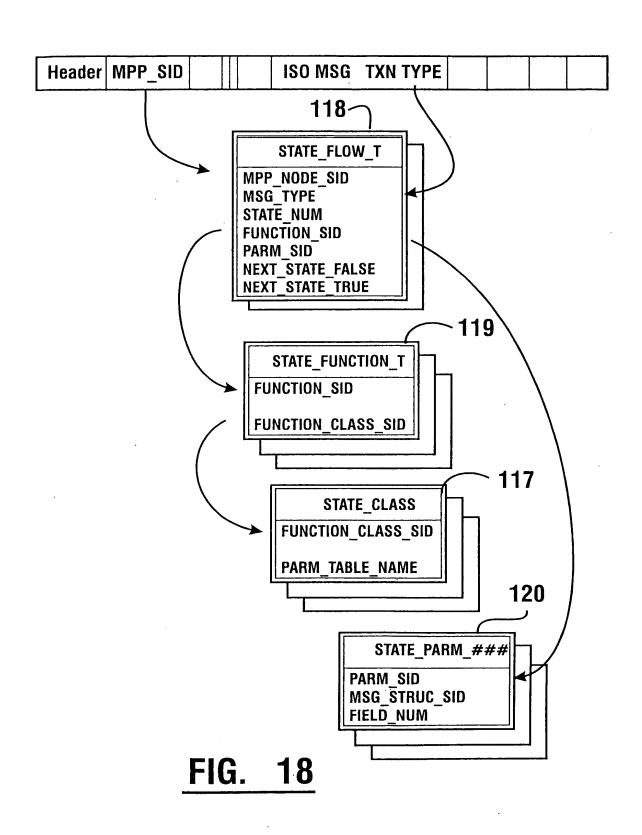
If the chosen Provider is not available at the time of the TCP/IP call. This table is used to determine if there is another service provider. Hot spare - fault tolerance.

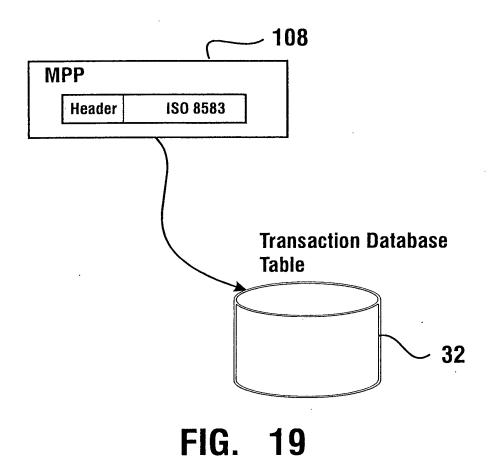
FIG. 14











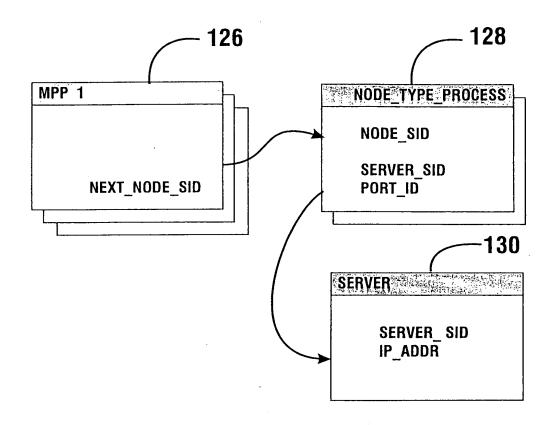
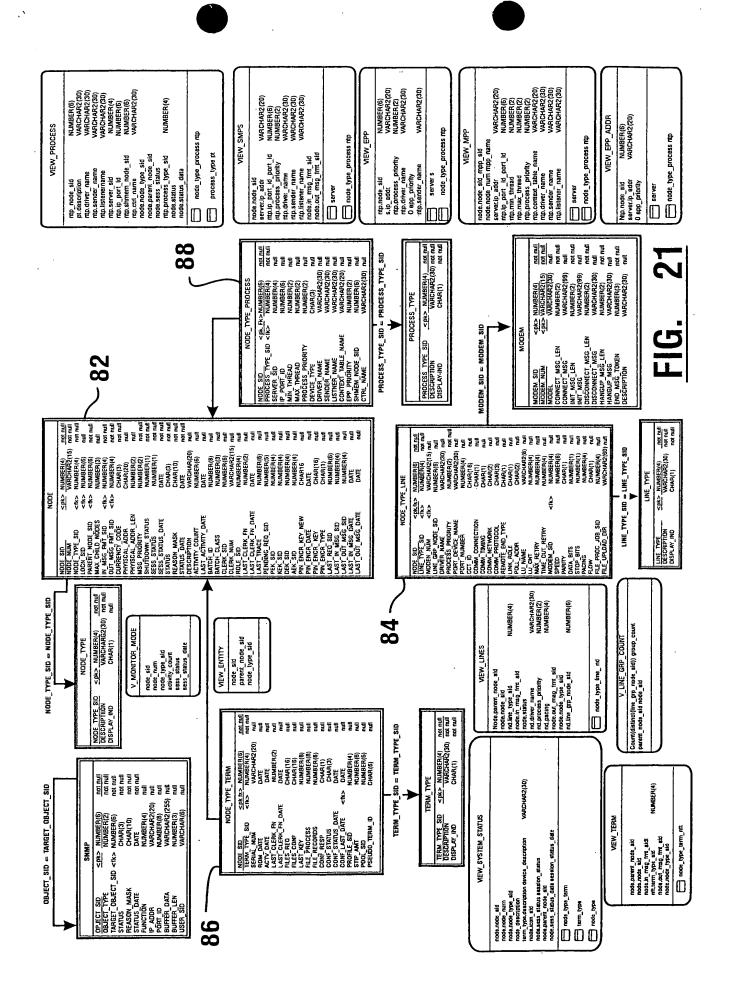
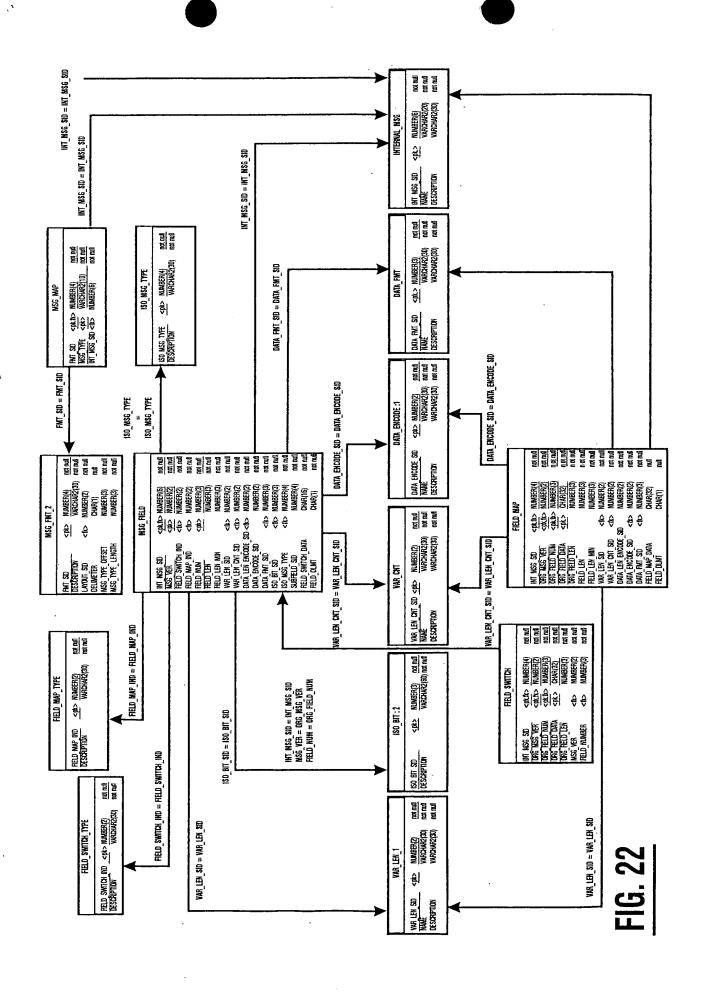
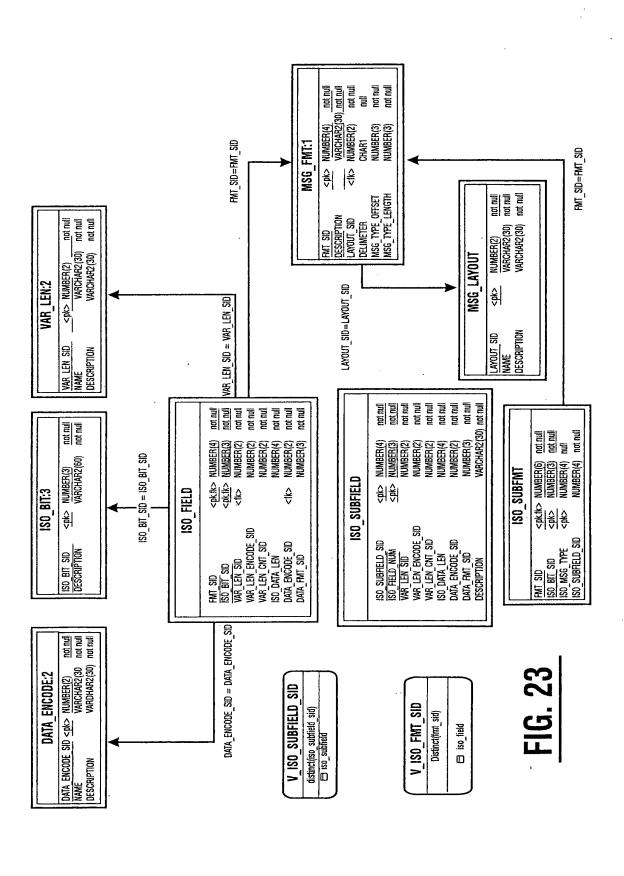


FIG. 20





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EXTERNAL_HOST			
HOST_SID	<pk> NUMBER(6)</pk>	not null	
HOST_NUM	VARCHAR2(15)	nuli	
NAME	VARCHAR2(30)	null	
ADDR	VARCHAR2(30)	nuli	
CITY	VARCHAR2(20)	nuli	
STATE	CHAR(2)	null	
COUNTRY_CODE	CHAR(3)	nuli	
ZIP_CODE	CHAR(9)	null	
CONTACT_NAME	VARCHAR2(30)	null	
TELEPHONE	VARCHAR2(16)	null	
NODE_SID	NUMBER(6)	null	
COMMENTS	VARCHAR2(30)	null	
STATUS	CHAR(3)	null	
STATUS_DATE	DATE	null	

SERVER_HOST_LINK				
SERVER_SID HOST-SID PRIORITY	< <u>pk.fk</u> > < <u>pk.fk</u>	NUMBER(6) NUMBER(6) NUMBER(2)	not null not null null	

SERVER_SID = SERVER_SID

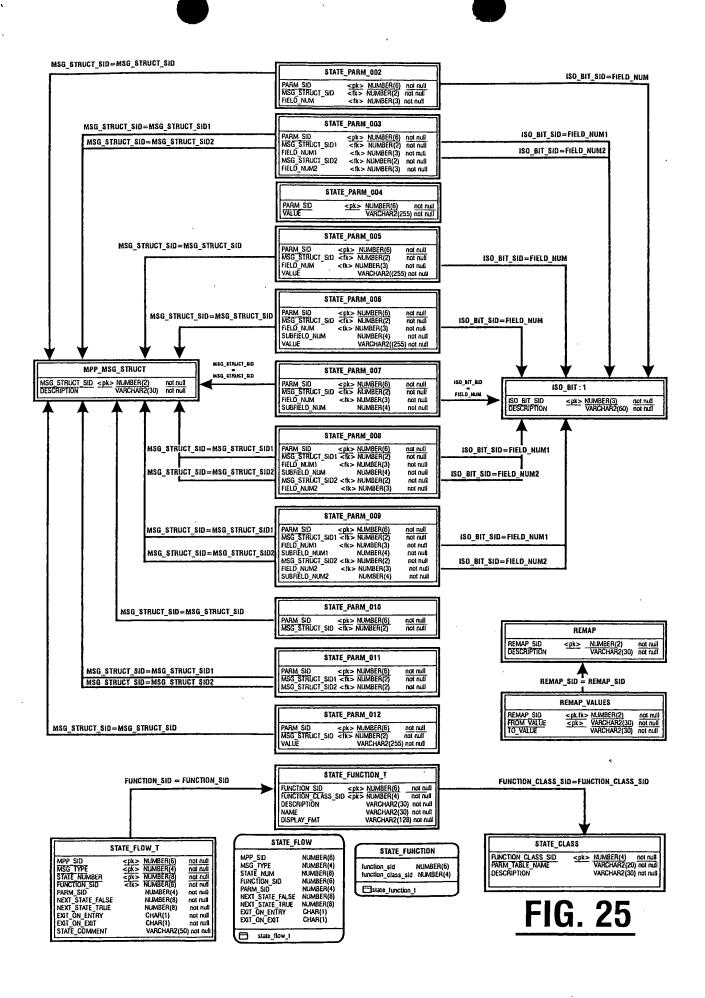
SERVER			
SERVER SID	<u><pk></pk></u>	NUMBER(6)	not nuil
NAME		VARCHAR2(20)	not nuil
IP_ADDR		VARCHAR2(20)	not nuil

COL_VALUE		
TABLE NAME COLUMN NAME ITEM_OFFSET COLUMN VALUE DESCRIPTION	<pk> VARCHAR2(20) not null <pk> VARCHAR2(20) not null <pk> NUMBER(2) not null <pk> VARCHAR2(3) not null VARCHAR2(30) not null</pk></pk></pk></pk>	

STATUS_REASON			
TABLE NAME	<pk></pk>	VARCHAR2(20)	not nul
STATUS VALUE	<pk></pk>	CHAR(3)	not nul
REASON_NUM	<pk></pk>	NUMBER(2)	not nul

SYSTEM_PARM			
SYSTEM PARM SID	<pk> NUMBER(4)</pk>	not null	
PARAMETER	<pk>VARCHAR2(10)</pk>	not null	
VALUE	VARCHAR2(20)	not null	
FMT	VARCHAR2(10)	not null	
STATUS	CHAR(3)	not null	
STATUS_DATE	DATE	not null	
DESCRIPTION	VARCHAR2(30)	not null	

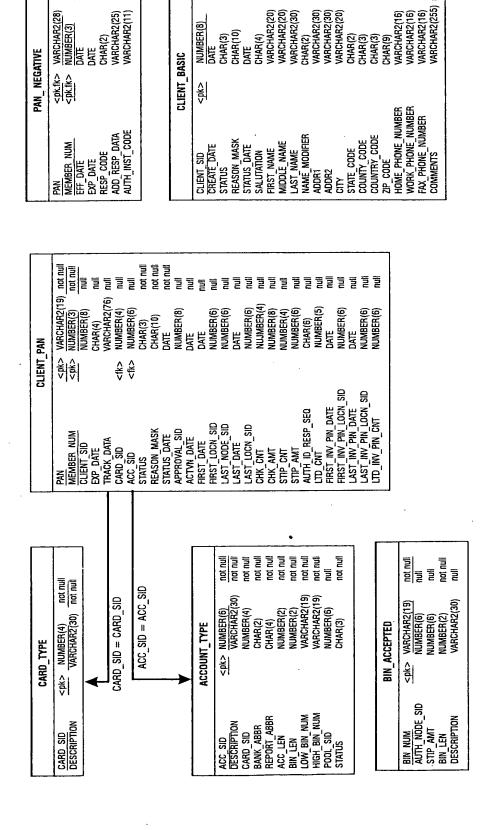
FIG. 24



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not null not null

VARCHAR2(11)



not null not null

CHAR(3) CHAR(10) DATE CHAR(4)

NUMBER(8) DATE

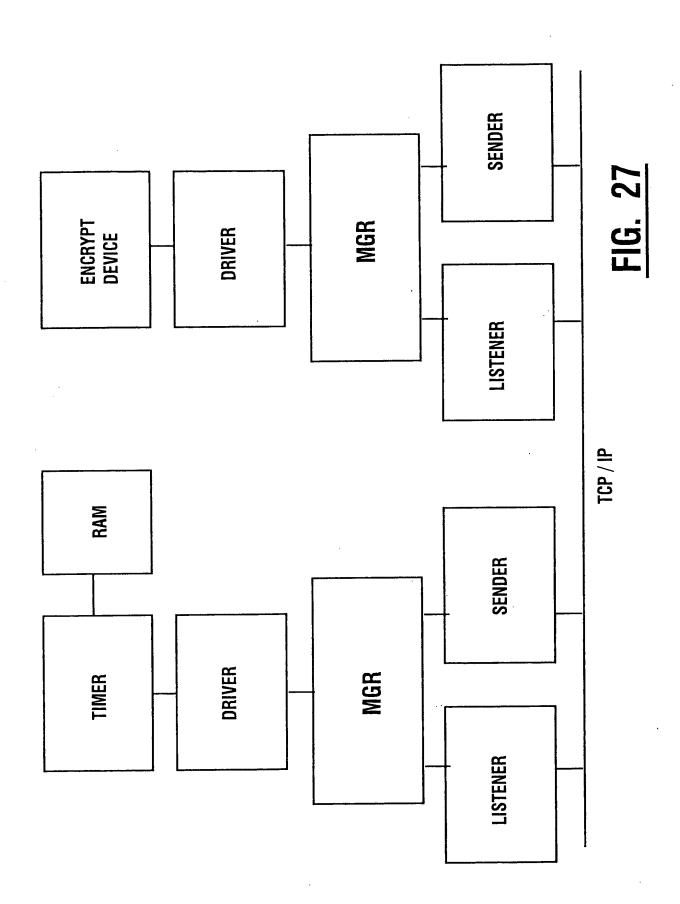
VARCHAR2(20)
VARCHAR2(20)
VARCHAR2(30)
CHAR(2)
VARCHAR2(30)
VARCHAR2(30)
VARCHAR2(30)

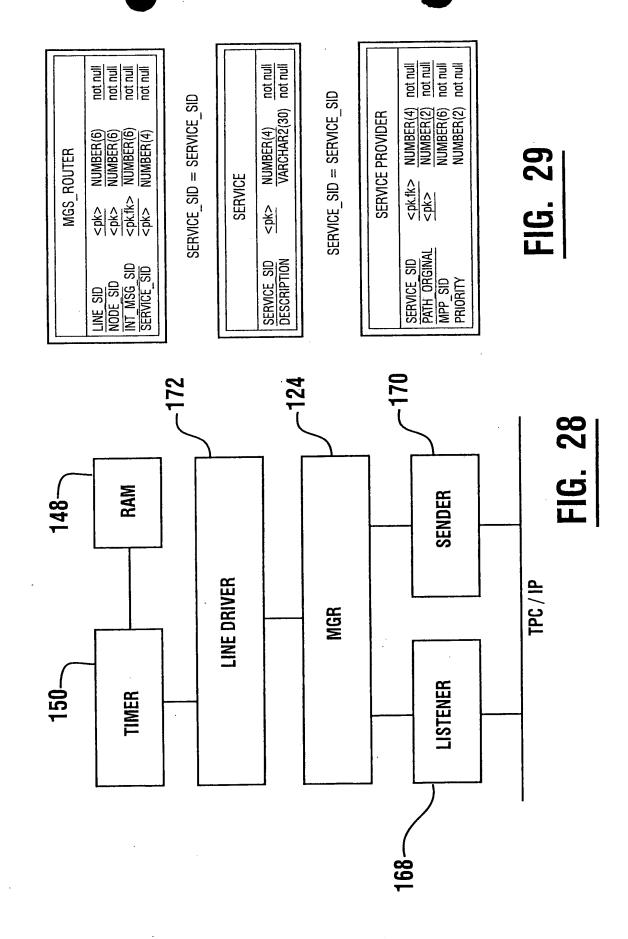
VARCHAR2(16) VARCHAR2(16) VARCHAR2(255)

/ARCHAR2(16)

CHAR(2) CHAR(3) CHAR(3) CHAR(9)

,3





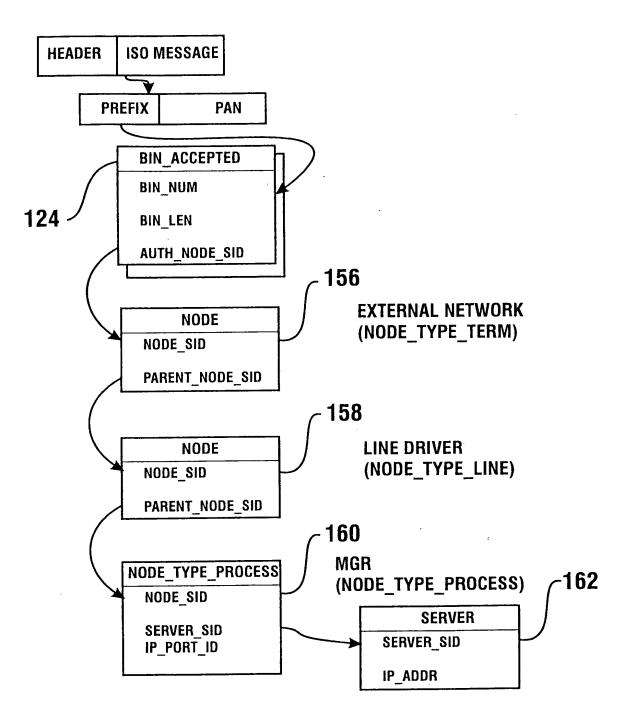


FIG. 30